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(54) CATALYST FOR EXHAUST GAS-CLEANING

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a catalyst for exhaust gas-cleaning which is capable of highly efficiently displaying an NO_x reduction action in a wide temperature range of an exhaust gas, and maintaining the NO_x reduction action for a long time by dispersing copper oxide particles on a matrix made up of zeolite and/or a metallic ferrite.

SOLUTION: The catalyst for exhaust gas-cleaning reduces a nitrogen oxide(NO_x) contained in exhaust gas

discharged from a diesel engine and cleans the exhaust gas. The catalyst comprises a homogenized mixture obtained by mixing preferably the matrix material powder and a copper oxide with a binder to a solidified state and copper oxide particles as a catalytic active species are dispersed in the matrix or thereon. Alternatively, the catalyst is formed by dispersing on/in a matrix made up of zeolite and/or a metallic ferrite at least one kind of precious metal particle selected from platinum, rhodium, iridium and silver, and copper oxide particles in the matrix or thereon.

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